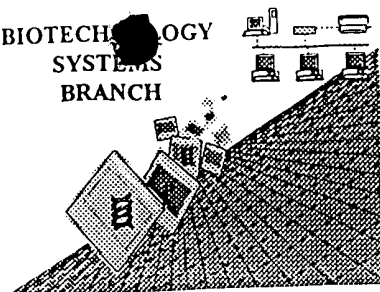


RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/327,700C

Source: 1633

Date Processed by STIC: 7/5/2001

RECEIVED

JUL 23 2001

TECH CENTER 1600/2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/327,750 C

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
- 4 Non-ASCII The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. Please **ensure your subsequent submission is saved in ASCII text**.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If **intentional**, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.
 In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
- 10 ✓ Invalid <213>
 Response Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

1633

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/327,750C

DATE: 07/05/2001
 TIME: 12:58:15

Input Set : A:\ES.txt
 Output Set: N:\CRF3\07032001\I327750C.raw

3 <110> APPLICANT: Sato, Taki-Aki
 5 <120> TITLE OF INVENTION: GENE ENCODING NADE, P75NTR- ASSOCIATED CELL DEATH EXECUTOR
 AND USES

6 THEREOF
 8 <130> FILE REFERENCE: 0575/59131/JPW/APE
 10 <140> CURRENT APPLICATION NUMBER: 09/327,750C
 11 <141> CURRENT FILING DATE: 1999-06-07
 13 <160> NUMBER OF SEQ ID NOS: 45
 15 <170> SOFTWARE: PatentIn version 3.0
 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 36
 19 <212> TYPE: DNA
 20 <213> ORGANISM: MOUSE
 22 <400> SEQUENCE: 1
 23 aattgtctac gcatccttat gggggagctg tctaac
 26 <210> SEQ ID NO: 2
 27 <211> LENGTH: 12
 28 <212> TYPE: PRT
 29 <213> ORGANISM: MOUSE
 31 <400> SEQUENCE: 2
 33 Asn Cys Leu Arg Ile Leu Met Gly Glu Leu Ser Asn
 34 1 5 10
 36 <210> SEQ ID NO: 3
 37 <211> LENGTH: 30
 38 <212> TYPE: DNA
 39 <213> ORGANISM: Artificial Sequence
 41 <220> FEATURE:
 42 <221> NAME/KEY: misc_feature
 43 <222> LOCATION: (1)..(30)
 44 <223> OTHER INFORMATION: Mouse Nade DNA
 47 <400> SEQUENCE: 3
 48 ctagctagca tcatggtgag caagggcgag
 51 <210> SEQ ID NO: 4
 52 <211> LENGTH: 28
 53 <212> TYPE: DNA
 54 <213> ORGANISM: Artificial Sequence
 56 <220> FEATURE:
 57 <221> NAME/KEY: misc_feature
 58 <222> LOCATION: (1)..(28)
 59 <223> OTHER INFORMATION: Mouse Nade DNA
 62 <400> SEQUENCE: 4
 63 ccgctcgagt cttgtacagc tcgtccat
 66 <210> SEQ ID NO: 5
 67 <211> LENGTH: 29
 68 <212> TYPE: DNA
 69 <213> ORGANISM: Artificial Sequence
 71 <220> FEATURE:
 72 <221> NAME/KEY: misc_feature

Does Not Comply
 Corrected Diskette Needed

36

30

28

RAW SEQUENCE LISTING

DATE: 07/05/2001

PATENT APPLICATION: US/09/327,750C

TIME: 12:58:15

Input Set : A:\ES.txt

Output Set: N:\CRF3\07032001\I327750C.raw

```

73 <222> LOCATION: (1)..(29)
74 <223> OTHER INFORMATION: Mouse Nade DNA
77 <400> SEQUENCE: 5
78 atcctcgagc gatcatggcc aatgtccac 29
81 <210> SEQ ID NO: 6
82 <211> LENGTH: 27
83 <212> TYPE: DNA
C--> 84 <213> ORGANISM: Artificial Sequence
86 <220> FEATURE:
87 <221> NAME/KEY: misc_feature
88 <222> LOCATION: ()..()
89 <223> OTHER INFORMATION: Mouse Nade DNA
92 <400> SEQUENCE: 6
93 atcggatcct ctgagctgta gctccct 27
96 <210> SEQ ID NO: 7
97 <211> LENGTH: 27
98 <212> TYPE: DNA
99 <213> ORGANISM: Artificial Sequence
101 <220> FEATURE:
102 <221> NAME/KEY: misc_feature
103 <222> LOCATION: (1)..(27)
104 <223> OTHER INFORMATION: Mouse Nade DNA
107 <400> SEQUENCE: 7
108 atcggatccg atctctctca tctcctc 27
111 <210> SEQ ID NO: 8
112 <211> LENGTH: 27
113 <212> TYPE: DNA
114 <213> ORGANISM: Artificial Sequence
116 <220> FEATURE:
117 <221> NAME/KEY: misc_feature
118 <222> LOCATION: (1)..(27)
119 <223> OTHER INFORMATION: Mouse Nade DNA
122 <400> SEQUENCE: 8
123 aaagcttagg gaggcacagc tgagaaa 27
126 <210> SEQ ID NO: 9
127 <211> LENGTH: 27
128 <212> TYPE: DNA
129 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:
132 <221> NAME/KEY: misc_feature
133 <222> LOCATION: (1)..(27)
134 <223> OTHER INFORMATION: Mouse Nade DNA
137 <400> SEQUENCE: 9
138 tttctcagct gtgcctccct aagcttt 27
141 <210> SEQ ID NO: 10
142 <211> LENGTH: 26
143 <212> TYPE: DNA
144 <213> ORGANISM: Artificial Sequence
146 <220> FEATURE:

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/327,750C

DATE: 07/05/2001

TIME: 12:58:15

Input Set : A:\ES.txt

Output Set: N:\CRF3\07032001\I327750C.raw

```

147 <221> NAME/KEY: misc_feature
148 <222> LOCATION: (1)..(26)
149 <223> OTHER INFORMATION: Mouse Nade DNA
152 <400> SEQUENCE: 10
153 atccggagaa aggctaggga ggcaca 26
156 <210> SEQ ID NO: 11
157 <211> LENGTH: 26
158 <212> TYPE: DNA
159 <213> ORGANISM: Artificial Sequence
161 <220> FEATURE:
162 <221> NAME/KEY: misc_feature
163 <222> LOCATION: (1)..(26)
164 <223> OTHER INFORMATION: Mouse Nade DNA
167 <400> SEQUENCE: 11
168 tgtgcctccc tagcctttct ccggat 26
171 <210> SEQ ID NO: 12
172 <211> LENGTH: 124
173 <212> TYPE: PRT
174 <213> ORGANISM: MOUSE
176 <400> SEQUENCE: 12
178 Met Ala Asn Val His Gln Glu Asn Glu Glu Met Glu Gln Pro Leu Gln
179 1 5 10 15
181 Asn Gly Glu Glu Asp Arg Pro Val Gly Gly Gly Glu Gly His Gln Pro
182 20 25 30
184 Ala Gly Asn Asn Asn Asn Asn Asn His Asn His Asn His Asn His His
185 35 40 45
187 Arg Arg Gly Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg Trp Ala Ile
188 50 55 60
190 Pro Asn Arg Gln Met Asn Asp Gly Leu Gly Gly Asp Gly Asp Asp Met
191 65 70 75 80
193 Glu Met Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys Leu Arg Glu
194 85 90 95
196 Leu Gln Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu Leu Ser Asn
197 100 105 110
199 His His Asp His His Asp Glu Phe Cys Leu Met Pro
200 115 120
202 <210> SEQ ID NO: 13
203 <211> LENGTH: 111
204 <212> TYPE: PRT
205 <213> ORGANISM: HUMAN
207 <400> SEQUENCE: 13
209 Met Ala Asn Ile His Gln Glu Asn Glu Glu Met Glu Gln Pro Met Gln
210 1 5 10 15
212 Asn Gly Glu Glu Asp Arg Pro Leu Gly Gly Gly Glu Gly His Gln Pro
213 20 25 30
215 Ala Gly Asn Arg Arg Gly Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg
216 35 40 45
218 Trp Ala Ile Pro Asn Arg Gln Ile Asn Asp Gly Met Gly Gly Asp Gly
219 50 55 60

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/327,750C

DATE: 07/05/2001

TIME: 12:58:15

Input Set : A:\ES.txt

Output Set: N:\CRF3\07032001\I327750C.raw

221 Asp Asp Met Glu Ile Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys
 222 65 70 75 80
 224 Leu Arg Glu Leu Gln Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu
 225 85 90 95
 227 Leu Ser Asn His His Asp His His Asp Glu Phe Cys Leu Met Pro
 228 100 105 110
 230 <210> SEQ ID NO: 14
 231 <211> LENGTH: 13
 232 <212> TYPE: PRT
 233 <213> ORGANISM: czyxin
 235 <400> SEQUENCE: 14
 237 Leu Thr Met Lys Glu Val Glu Glu Leu Glu Leu Leu Thr
 238 1 5 10
 240 <210> SEQ ID NO: 15
 241 <211> LENGTH: 13
 242 <212> TYPE: PRT
 243 <213> ORGANISM: MAPKK
 245 <400> SEQUENCE: 15
 247 Ala Leu Gln Lys Lys Leu Glu Glu Leu Glu Leu Asp Glu
 248 1 5 10
 250 <210> SEQ ID NO: 16
 251 <211> LENGTH: 10
 252 <212> TYPE: PRT
 253 <213> ORGANISM: PKI-alpha
 255 <400> SEQUENCE: 16
 257 Leu Ala Leu Lys Leu Ala Gly Leu Asp Ile
 258 1 5 10
 260 <210> SEQ ID NO: 17
 261 <211> LENGTH: 9
 262 <212> TYPE: PRT
 263 <213> ORGANISM: TF III A
 265 <400> SEQUENCE: 17
 267 Leu Pro Val Leu Glu Asn Leu Thr Leu
 268 1 5
 270 <210> SEQ ID NO: 18
 271 <211> LENGTH: 9
 272 <212> TYPE: PRT
 273 <213> ORGANISM: Rev HIV-1
 275 <400> SEQUENCE: 18
 277 Leu Pro Pro Leu Glu Arg Leu Thr Leu
 278 1 5
 280 <210> SEQ ID NO: 19
 281 <211> LENGTH: 12
 282 <212> TYPE: PRT
 283 <213> ORGANISM: Ran BP1
 285 <400> SEQUENCE: 19
 287 Lys Val Ala Glu Lys Leu Glu Ala Leu Ser Val Arg
 288 1 5 10
 290 <210> SEQ ID NO: 20

sec item # 10 on
 ERROR SUMMARY SHEET

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/327,750C

DATE: 07/05/2001

TIME: 12:58:15

Input Set : A:\ES.txt

Output Set: N:\CRF3\07032001\I327750C.raw

291 <211> LENGTH: 13
292 <212> TYPE: PRT
293 <213> ORGANISM: FMRP
295 <400> SEQUENCE: 20
297 Glu Val Asp Gln Leu Arg Leu Glu Arg Leu Gln Ile Asp
298 1 5 10
300 <210> SEQ ID NO: 21
301 <211> LENGTH: 8
302 <212> TYPE: PRT
303 <213> ORGANISM: Gle 1
305 <400> SEQUENCE: 21
307 Leu Pro Leu Gly Lys Leu Thr Leu
308 1 5
310 <210> SEQ ID NO: 22
311 <211> LENGTH: 14
312 <212> TYPE: PRT
313 <213> ORGANISM: Rex HTLV-1
315 <400> SEQUENCE: 22
317 Ala Leu Ser Ala Gln Leu Tyr Ser Ser Leu Ser Leu Asp Ser
318 1 5 10
320 <210> SEQ ID NO: 23
321 <211> LENGTH: 13
322 <212> TYPE: PRT
323 <213> ORGANISM: human NADE
325 <400> SEQUENCE: 23
327 Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg
328 1 5 10
330 <210> SEQ ID NO: 24
331 <211> LENGTH: 13
332 <212> TYPE: PRT
333 <213> ORGANISM: mouse NADE
335 <400> SEQUENCE: 24
337 Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg
338 1 5 10
340 <210> SEQ ID NO: 25
341 <211> LENGTH: 27
342 <212> TYPE: PRT
343 <213> ORGANISM: MOUSE
345 <400> SEQUENCE: 25
347 Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg Asn Cys Leu
348 1 5 10 15
350 Arg Ile Leu Met Gly Glu Leu Ser Asn His His
351 20 25
353 <210> SEQ ID NO: 26
354 <211> LENGTH: 27
355 <212> TYPE: PRT
356 <213> ORGANISM: HUMAN
358 <400> SEQUENCE: 26
360 Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg Asn Cys Leu

— see page 4

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/327,750C

DATE: 07/05/2001

TIME: 12:58:16

Input Set : A:\ES.txt

Output Set: N:\CRF3\07032001\I327750C.raw

L:84 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6